

INCH-POUND

MIL-C-29462
15 April 1992

MILITARY SPECIFICATION

CLOTH, LAMINATED, POLYESTER, TRICOT KNIT, ACTIVATED CARBON SPHERE, CHEMICAL PROTECTIVE

This specification is approved for use by the US Marine Corps, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the requirements for a chemical protective fabric with activated carbon spheres between a polyester tricot knit cloth and a coaxial polyamide/polyester nonwoven spacer liner cloth.

2. APPLICABLE DOCUMENTS

2.1 Government Documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DPSC-FSSD, 2800 South 20th Street, Philadelphia, PA 19101-8419, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC-NA

FSC 8305

DISTRIBUTION STATEMENT A. Approved for public release;
distribution is unlimited.

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SPECIFICATIONS

FEDERAL

PPP-P-1136 Packaging and Packaging of Coated
(Plastic; Rubber) and Laminated
Fabrics

MILITARY

MIL-C-43468 Cloth, Camouflage Pattern, Wind
Resistant Poplin, Cotton

STANDARDS

FEDERAL

FED-STD-191 Textile Test Methods

MILITARY

MIL-STD-105 Sampling Procedures and Tables for
Inspection by Attributes

(Unless otherwise indicated, copies of federal and military specifications, standards and handbooks are available from the Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings, and publications.
The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

TEST METHODS

CRDC-SP-84010 Laboratory Methods for Evaluating
Protective Clothing Systems Against
Chemical Agents

(Application for copies may be requested from the Commander, Chemical Research and Development Center, ATTN: DRSMC-CLJ-IR (A), Aberdeen Proving Ground, Maryland 21010.)

2.2 Non-Government Publications. The following document(s) form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted shall be those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

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PRINS MAURITS LABORATORY TNO
Laboratory Evaluation of the Protection Afforded by NBC
Clothing, Program 723.1, dated July 1987

(Applications for copies may be requested from TNO Prins
Maurits Laboratory, Chemical and Technological Research
Institute, P.O. Box 45, 2280 AA Rijswijk ZH, Lange Kleiweg 137,
2288 GJ Rijswijk ZH, Netherlands.)

TECHNICAL MANUAL OF THE AMERICAN ASSOCIATION OF TEXTILE
CHEMISTS AND COLORISTS

Method Number 135-1987 - Dimensional Changes in Automatic
Home Laundering of Durable Press Woven or Knit Fabrics

(Applications for copies of the AATCC Manual should be
addressed to the AATCC National Headquarters, P.O. Box 12215,
Research Triangle Park, North Carolina 27709.)

ANNUAL BOOK OF ASTM STANDARDS: VOLUME 15.01-REFRACTORS;
CARBON AND GRAPHITE PRODUCTS; ACTIVATED CARBON

Designation - D 2854-83 - Apparent Density of Activated
Carbon

Designation - D 2862-82 - Particle Size Distribution of
Granular Activated Carbon

Designation - D 1810-81 - Determination of Iodine Number
of Activated Carbon

(Applications for copies of the ASTM Annual Book of ASTM
Standards: Volume 15.01 should be addressed to: ASTM, 1916 Race
Street, Philadelphia, PA 19103-1187.)

(Non-Government standards and other publications are normally
available from the organizations that prepare or distribute the
documents. These documents also may be available in or through
libraries or other informational services.)

2.3 Order of precedence. In the event of a conflict between the
text of this document and the references cited herein, the text
of this document takes precedence. Nothing in this document
however, supersedes applicable laws and regulations unless a
specific exemption has been obtained.

3. REQUIREMENTS

3.1 Standard sample. The laminated fabric shall be equal to or
better than the standard sample with respect to all
characteristics for which the standard sample is referenced (see
6.4).

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3.2 First article. When specified, (see 6.2), a sample shall be subjected to first article inspection, in accordance with 4.3.

3.3 Material.

3.3.1 Inner Lining. The inner lining cloth shall be made using 45 denier polyester filament yarn and knit on a 2 bar 28 gauge tricot machine. The cloth shall be a suitable shade of black and shall show fastness to water equal to or better than the standard sample. The wales shall be 11 cm. and courses shall be 25 cm. giving a 87-95 g/m² fabric. The fabric must be thoroughly heat-set to stabilize wales and courses. The fabric must be free from any chemicals causing skin irritation when wearing the NBC suit.

3.3.2 Spacer lining cloth. The spacer lining acts as an additional layer to protect against the CW agents. The spacer lining is a nonwoven made from a coaxial polyamide/polyester fiber weighing 34 g/m².

3.3.3 Activated carbon. The activated carbon spheres shall meet the physical and chemical requirements as specified in Table I when tested as specified in 4.5.1.

TABLE I. Activated Carbon Requirements

Characteristics	Requirements
Type	Spherical
Size	
Diameter range (mm)	0.25-0.71
Mean diameter (mm)	<0.52
Density (minimum)	0.55 g/cm ²
Active Surface, iodine number (minimum)	
Before detergent exposure	900 mg/g
After detergent exposure	800 mg/g

3.3.4 Laminated fabric. The activated carbon spheres shall be applied with continuous, uniform distribution to one side of the inner lining (carrier cloth) with a suitable adhesive. The spacer lining cloth shall then be bonded to the exposed activated carbon spheres with a suitable adhesive. The laminated cloth shall be a suitable shade of black.

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3.4 Physical requirements. The physical requirements of the finished fabric shall be as specified in Table II when tested as specified in 4.5.2.1.

TABLE II. Physical Requirements

Characteristics	Requirements
Weight per sq. yd. (ounces) (maximum)	10.5
Thickness (inches) (maximum)	0.04
Flex Stiffness (mg-cm) (maximum)	
Warp	10,000
Filling	2,500
Breaking Strength (lbs) (minimum)	
Warp	70
Filling	55
Tearing Strength (lbs) (minimum)	
Warp	2.2
Filling	2.6
Air permeability (cu. ft./min./sq.ft.) at 1/2-inch water pressure (minimum)	150

3.5 Width. Unless otherwise specified (see 6.2), the width shall be 60 inches inclusive of selvages.

3.6 Chemical agent protection. The laminated fabric shall provide chemical agent protection against the agent concentration levels and exposure times given in Table III before and after ten (10) launderings when tested as specified in 4.5.2.2.

Table III. Chemical Agent Protection Requirements

Test	Agent	Agent Concentration	Exposure Time (minimum)
Liquid Vapor (emplaced drops)	HD	10 g/m ²	24 hours
Liquid Vapor (falling drop)	HD	8.5 g/m ²	24 hours
Vapor/Vapor	HD	20 ug/l	6 hours

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3.7 Dimensional stability. The laminated fabric shall not shrink more than 3.5 percent in the direction of the warp nor more than 2.5 percent in the direction of the filling, after five (5) launderings when tested as specified in 4.5.2.1.

3.8 Laundering durability. The laminated fabric shall not delaminate nor shall the spacer liner cloth pucker after ten (10) launderings when tested as specified in 4.5.2.1.

3.9 Length and put-up. Unless otherwise specified (see 6.2), the laminated fabric shall be furnished in continuous length each not less than 25 yards. Each length shall be put-up in full width rolls as specified in PPP-P-1136.

3.10 Labeling. An information label shall be securely attached to each roll from each lot of finished fabric. The label shall identify day, month and year of manufacture and manufacture's name and lot number.

3.11 Workmanship. The finished cloth shall conform to the quality and grade of product established by this specification. The occurrence of defects shall not exceed the point level specified.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

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4.1.2 Certificate of compliance. Where certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

1. First article inspection (see 4.3)
2. Quality conformance inspection (see 4.4)

4.2.1 Inspection conditions. Unless otherwise specified, all inspections shall be performed in accordance with the test conditions specified in 4.3, 4.4, and 4.5 of this specification.

4.3 First article inspection. The first article samples shall be subjected to tests specified in Section 3 in accordance with methods specified in 4.5 of this specification.

4.3.1 First article samples. Unless otherwise specified, as soon as practical after the award of the contract or order, the manufacturer shall submit five linear yards of the chemical protective laminated cloth and 0.5 kilograms of the activated carbon spheres for subjection to the examinations and tests specified in 4.3.2. The samples shall be representative of the construction, workmanship, components and materials to be used during production.

4.3.2 First article tests. The first article samples shall be subjected to tests specified in Section 3 in accordance with methods specified in 4.5 of this specification.

4.4 Quality conformance inspection. Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter.

4.4.1 Component and material inspection. In accordance with 4.1 above, components and materials shall be tested in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable procurement documents.

4.4.2 Examination of the end item. Examination of the end item shall be in accordance with the provisions of 4.4.3 through 4.4.5. The inspection level shall be II (see 6.5).

4.4.3 Yard-by-yard examination. Each roll in the sample shall be examined on both sides and visual defects as defined herein shall be as classified as listed in Table IV. All defects found shall be counted regardless of their proximity one to another except where two or more defects represent a single local condition of the cloth, in which case only the more serious defect shall be counted. A continuous defect shall be counted as one sample unit

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for each lengthwise yard or fraction thereof in which it occurs. The sample unit for this examination shall be one linear yard. The sample size shall be in accordance with Inspection Level II of MIL-STD-105. The total size shall be expressed in units of one linear yard. An approximate equal number of yards shall be examined from each roll selected for yard by yard examination.

4.4.4 Classification of defects. All defects shall be classified as indicated below:

Major defect - When seriously affecting appearance or serviceability

Minor defect - When affecting appearance or serviceability, but not seriously

4.4.5 General defect. General defects shall be classified as follows:

TABLE IV. End item inspection ^{1/}

Defect	Classification	
	Major	Minor
Part A - Nonwoven side		
1. Any cut, tear, hole mend or burn through laminated cloth over 1/4 inch long	X	
2. Any size mend	X	
3. Area of delamination over 1 inch in diameter	X	
4. Spot or stain (grease, oil or ink)	X	
5. Objectionable odor	X	
6. Foreign matter under spacer lining cloth	X	
Part B - Knit cloth side		
1. Any cut, tear, or hole through liner -over 1/2 inch long	X	
-1/4 to 1/2 inch long		X
2. Mends in liner -over 1 inch long	X	
-1/2 to 1 inch long		X
3. Folds or creases		X

^{1/} Clearly visible at normal inspection distance (3 feet).

4.4.6 Examination for length.

4.4.6.1 Individual rolls. During the yard-by-yard examination, each roll in the sample shall be examined for length. Any length found to be less than the minimum specified or more than two yards less than the length marked on the ticket shall be

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considered a defect with respect to length. The lot shall be unacceptable if two or more rolls in the sample are defective in respect to length. (see 6.5).

4.4.6.2 Total yardage in sample. The lot shall be unacceptable if the total of the actual length of rolls in the sample is less than the total of the lengths marked on the ticket.

4.4.7 Examination of preparation for delivery requirements. An examination shall be made in accordance with the provisions of PPP-P-1136, to determine that packaging, packing, and marking complies with the Section 5 requirements. (see 6.5.3).

4.4.8 Examination of packaging requirements. An examination shall be made to determine that packaging, packing, and marking comply with Section 5 requirements of this specification. Defects shall be scored in accordance with the list below. The sample unit shall be one shipping container fully prepared for delivery. Defects of closure listed below shall be examined on shipping containers fully prepared for delivery. The lot size shall be on the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and the acceptable quality level (AQL) shall be 2.5 defects per hundred units in accordance with MIL-STD-105.

<u>Examine</u>	<u>Defect</u>
Marking (exterior and (interior)	Omitted, incorrect, illegible, or improper size, location, sequence, or method of application.
Materials	Any component missing, damage, or application of components, such as: incomplete closure of container flaps, loose strapping, improper taping, inadequate stapling bulged or distorted container.
Content	Number of items per shipping container is more or less than required. Size shown on one or more items not as specified on shipping container. 1/

1/ For this defect, one item from each shipping container in sample shall be examined.

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4.5 Tests.

4.5.1 Testing of the activated carbon spheres. Compliance with activated carbon sphere requirements of Table I shall be determined on activated carbon spheres as specified in Table V. The physical and chemical values specified in Section 3, except where otherwise specified, apply to the results of the determinations made on a sample unit for test purposes as specified in the applicable test method. The sample unit shall be 0.5 kilograms of the activated carbon spheres. All test reports shall contain the individual values utilized in expressing the final result. The lot size shall be expressed in units of 1 kilogram. The lot shall be unacceptable if one or more units fail to meet any requirement specified. The sample size (number of sample units) shall be as follows:

<u>Lot Size (kilograms)</u>	<u>Sample Size</u>
2000 or less	2
2000 through 5000	3
5001 and over	5

TABLE V. Activated carbon sphere test methods

<u>Characteristics</u>	<u>Requirement Paragraph</u>	<u>Test Method</u>
Type	3.3.3	<u>1/</u>
Size	3.3.3	ASTM D 2862-82 <u>2/</u>
Density	3.3.3	ASTM D 2854-83 <u>4/</u>
Active surface, iodine number	3.3.3	ASTM D 1810-81 <u>3/</u>

1/ Unless otherwise specified, a certificate of compliance shall be submitted and will be acceptable for the stated requirements.

2/ Carbon sphere size is calculated by multiplying the sieve opening size by the percentage of spheres remaining on the sieve. Values for each sieve are totaled for a weighted average sphere size.

3/ For detergent exposure prepare a wash solution of 1 gram AATCC #124 detergent with optical brightener per 5.0 liters water to wash 40 grams of activated carbon. Solution containing carbon spheres shall be mechanically stirred and held at a temperature of 60°C (140°F) throughout a 60 minutes detergent soaking period. Carbon spheres shall be rinsed three (3) times for a minimum of 5 minutes each in distilled water at 38°C (100°F) with stirring. Repeat procedure ten times, changing the wash solution each time. Prior to testing, carbon spheres shall be dried for a minimum of 3 hours at a temperature of 60°C (140°F) in a convection oven.

4/ Samples shall be dried at 150°C for 2 hours prior to testing.

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4.5.2 Testing of the end item.

4.5.2.1 Physical and chemical property testing. Compliance with physical and chemical property requirements of Section 3 shall be determined on chemical protective laminated fabric as specified in Table VI. The physical and chemical values specified in Section 3, except where otherwise specified, apply to the results of the determinations made on a sample unit for test purposes as specified in the applicable test method. The sample unit shall be 3 continuous yards (2.75 meters), full width, of the finished cloth. All test reports shall contain the individual values utilized in expressing the final result. The lot size shall be expressed in units of one linear yard. The lot shall be unacceptable if one or more units fail to meet any requirement specified. The sample size (number of sample units) shall be as follows:

<u>Lot size (yards)</u>	<u>Sample Size</u>
5,000	3
5,001 - 10,000	5

Table VI. End item test methods

<u>Characteristics</u>	<u>Requirement Paragraph</u>	<u>FED-STD-191 Test method</u>
Weight	3.4	5041
Thickness	3.4	5030
Breaking Strength		
Warp	3.4	5100
Filling	3.4	5100
Tearing Strength		
Warp	3.4	5132
Filling	3.4	5132
Air Permeability	3.4	5450
Cantilever stiffness	3.4	5206 3/
Dimensional stability		
after five launderings	3.7	2/
Laundering durability	3.8	1/ 2/ 4/ 5/

1/ Unless otherwise specified, a certificate of compliance shall be submitted and will be acceptable for the stated requirements.

2/ AATCC 135-1987 version - delicate wash cycle, $41 \pm 3^{\circ}\text{C}$ ($105 \pm 5^{\circ}\text{F}$) water temperature, 15 grams AATCC standard detergent #124 with optical brightener per 82 liters of water and permanent press tumble dry procedure. Wash in top-loading machine.

3/ Chemical protective laminated fabric shall be tested spacer lining side up.

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4/ Samples shall be laundered ten (10) times.

5/ Washed samples shall be full width of laminated fabric and 1/2 yard in length.

4.5.2.2 Chemical agent protection testing. Compliance with chemical agent protection requirements of Table III shall be determined on chemical protective laminated fabric as specified in Table VII. The chemical values specified in Section 3, except where otherwise specified, apply to the results of the determinations made on a sample unit for test purposes as specified in the applicable test method. The sample unit shall be 2 continuous yards (1.8 meters), full width, of the finished cloth. Sample shall be submitted only to government approved laboratories for testing. The lot size shall be expressed in units of 1 yard. The lot shall be unacceptable if one or more units fail to meet any requirement specified. The sample size (number of sample units) shall be as follows:

<u>Lot size (yards)</u>	<u>Sample Size</u>
Less than 5,000	3
5,001 and over	5

Table VII. Chemical agent protection test methods 1/

Test	Agent	Test Method	Reference
Liquid Vapor 2/	HD	2.2	CRDC-SP-84010
Vapor Vapor	HD	1.1	TNO-723.1
Liquid Vapor 2/ (falling drop)	HD	1.3	TNO-723.1

1/ AATCC 135-1987 version - delicate wash cycle, $41 \pm 3^{\circ}\text{C}$ ($105 \pm 5^{\circ}\text{F}$) water temperature, 15 grams AATCC standard detergent #124 with optical brightener per 82 liters of water and permanent press tumble dry procedure. Samples shall be laundered ten (10) times. Wash in top-loading machine.

2/ MIL-C-43468, cloth camouflage pattern, wind resistant poplin, cotton quarpel treated shall be used in combination with the filter cloth.

5. PACKAGING

5.1 Put-up. Put-up shall be level A or C as specified (see 6.2).

5.1.1 Level A. The cloth shall be put-up in accordance with the applicable requirements of PPP-P-1136.

5.1.2 Level C. The cloth shall be put-up in accordance with the applicable requirements of PPP-P-1136.

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5.2 Preservation. Preservation shall be level A or C as specified (see 6.2).

5.2.1 Level A. The cloth shall be preserved in accordance with the applicable requirements of PPP-P-1136.

5.2.2 Level C. The cloth shall be preserved in accordance with the applicable requirements of PPP-P-1136.

5.3 Packaging. Packaging shall be level A or C as specified (see 6.2).

5.3.1 Level A. Each roll of cloth of like description shall be enclosed with two (2) close-fitting clear polyethylene film bags or tubes. The bags or tubes shall be fabricated from polyethylene film having a thickness of 0.003 inch ($\pm 20\%$ tolerance). The polyethylene bag shall be formed with heat sealed seams that are straight, continuous, and parallel to each other and the formed edges of the bag. The open end(s) of the bag or tube shall be heat sealed or secured with a mechanical tie (paper or vinyl) plastic covered soft steel wire, aluminum band, etc.). Prior to or during the closure operation, excess air within the bag or tubing shall be removed. The first bag or tube around the roll of cloth shall be sealed or secured as specified before insertion within the second bag or tube.

5.3.2 Level C. The cloth, put-up as specified, shall be packaged in accordance with the level C requirements of PPP-P-1136.

5.4 Packing. Packing shall be level A, B, or C as specified (see 6.2).

5.4.1 Level A. The cloth shall be packed in accordance with the applicable requirements of PPP-P-1136.

5.4.2 Level B. The cloth shall be packed in accordance with the applicable requirements of PPP-P-1136.

5.4.3 Level C. The cloth preserved, as specified in 5.2, shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. The quantity per shipping container shall be the same as that normally used by the contractor for retail distribution. Containers shall comply with the US Postal Manual, Uniform Freight Classification Rules or National Motor Freight Classification Rules, as applicable.

5.5 Marking. In addition to any special marking required by the contract or purchase order, shipments shall be marked in accordance with PPP-P-1136.

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6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended Use. The cloth covered by this specification is intended for use in the fabrication of chemical protective combat clothing intended for use by military personnel of the Department of Defense.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number and date of this specification.
- b. Issue of DODISS to be cited in the solicitation and, if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).
- c. First article (see 3.2 and 4.3), when first article inspection is required, the item will be tested and should be a first article sample. The contracting officer should include specific instructions in acquisition documents regarding arrangement for examinations, quantity, and testing and approval.
- d. Width of cloth required when other than specified (see 3.5)
- e. Length required if other than specified (see 3.9).
- f. Acceptance criteria (see 6.5).
- g. Selection of applicable levels of preservation and packing (see 5.2 and 5.4).

6.3 Warning. During the manufacturing process, the chemical protective laminated fabric should be protected from exposure to chemical vapors, such as solvents, to prevent contamination of the activated carbon.

6.4 Standard samples and shades. For information regarding availability of samples of the fabric, address inquiry to the acquisition activity.

6.5 Acceptance criteria. The acceptance criteria below are recommended for use. The acceptance criteria as specified in the contract or purchase order shall be binding. Unless otherwise specified, the following acceptance criteria are in accordance with MIL-STD-105.

6.5.1 For end item visual examination. An acceptance quality level (AQL), expressed in terms of defects per hundred units, of 4.0 for major defects and 10.0 for total (major and minor combined) defects is recommended.

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6.5.2 For end item dimensional examination. An AQL, expressed in terms of defects per hundred units, of 4.0 is recommended.

6.5.3 For packaging examination. An AQL, expressed in terms of defects per hundred units, of 2.5 is recommended.

6.6 Recycled materials. It is encouraged that recycled materials be used when practical as long as the materials meet the requirements of this specification.

6.7 Subject term (key word) listing.

Fabric
Protective

Custodian:
Navy - MC

Preparing activity:
DLA-CT

Project No.
8305-0434

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

RECOMMEND A CHANGE:	1. DOCUMENT NUMBER MIL-C-29462	2. DOCUMENT DATE (YYMMDD) 15 April 1992
3. DOCUMENT TITLE Cloth, Laminated, Polyester, Tricot Knit, Activated Carbon Sphere, Chemical Protective		
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (or Firm Designation)	b. ORGANIZATION	
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (if applicable)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY		
a. NAME DLA-CT	b. TELEPHONE (Include Area Code) (1) Commercial (215) 737-8105	(2) AUTOVON- DSN 444-8105
c. ADDRESS (Include Zip Code) 2800 South 20th Street Philadelphia, PA 19101-8419	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	